SUBJECT INDEX

Accelerated corrosion, 1139
Acetonitrile-water mixtures, 2317
Acid corrosion, 2303
Acid inhibition, 1205
Acid media, 2129
Acid solutions, 351, 1205, 1333, 1955
Acoustic emission, 1175
Activation, 1419
Adherence, 1921
Adsorption, 789
AES, 1051, 1257
AFM, 477, 1871
Al 2024, 421
Al depletion, 1921
Alkaline conditions, 2229
Alkaline corrosion, 759
Alloy, 477, 1095, 1333, 1849, 1871, 2229
Alloys, 989, 1599, 1791
Alumina, 1089, 1835, 1945, 1971
Aluminium, 653, 709, 805, 885, 1079, 1323, 1447, 1599, 1743, 1835, 1945
Aluminium alloys, 291, 709, 1475
Aluminium matrix composites, 529
Aluminum, 477, 2229
Aluzink, 2229
Ammonium chloride, 669
Amorphous structures, 1095, 1849
Anions, 653
Anodic, 1971
Anodic dissolution, 773, 2303
Anodic films, 747, 759, 1599, 1945, 2053, 2083
Anodic oxidation, 1089
Anodic oxides, 1467
Anodizing, 291, 1599, 1835, 1945
Area reduction, 1119
Aromatic azole-type compounds, 105
Atmospheric corrosion, 141, 1529, 1715, 2001
Auger electron spectroscopy, 1585
Autophoretic coating, 1633
AZ91D, 249

B weight loss, 685
Barrier, 2053
Blackening, 2229
Boiling crevice model, 2165, 2191
Boiling water reactors, 2267
Brass, 1529

^{13}C and ^{1}H NMR, 105
A516 Carbon steel, 1245
Cathodic disbonding, 580, 599
Cathodic protection, 229, 1165, 2099
Caustic, 805
Ceramic, 1403
Ceria, 1703
Cerium, 1791
Channel flow double electrode, 1419
Chloride, 869, 1835, 2001
Chromium, 773, 1419
Co, 1731
Cobalt, 1377, 1665, 1791
Conducting polymeric composites, 1165
Contact electric resistance, 1557
Conversion electron Mössbauer spectroscopy, 1585
Copper, 463, 685, 919, 1051, 1205, 1273, 1359, 1529, 1665, 1899, 1955, 1987
Corrosion, 249, 669, 709, 885, 1687, 2075
Corrosion behaviour, 529
Corrosion fatigue, 1067
Corrosion in organic solvents, 2317
Corrosion inhibition, 685, 709
Corrosion inhibitor, 229, 1769
Corrosion inhibitors, 105, 789
Corrosion monitoring, 2129
Corrosion potential, 547
Corrosion products, 2229
Corrosion rate, 1497, 1515
Coupled environment fracture model, 2165, 2191
Coupons, 1687
Crack growth rate, 2267
Crack initiation, 1031
Crevice corrosion, 351
Critical stress, 1031
Cu alloy, 1089
Cyclic voltammetry, 463, 759, 1447, 1585, 1899, 2113

De-adhesion, 547
Deformation, 1119
Delamination, 547, 580, 599

Diecasting, 249
Diffusion barriers, 1431
Directionally-solidified alloys, 902
Dislocation emission, 699
Dissolution, 2113
Dissolution and passivation of iron, 2317
Donnan-potential, 547
Duplex stainless steels, 959

Effects of passivators, 2317
Effects of strain, 203
EIS, 57, 141, 275, 1165, 1359, 1391, 1447, 1539, 1557
Electrochemical impedance spectroscopy (EIS), 885
Electrochemical impedance spectroscopy, 789, 2113
Electrochemical methods, 1497
Electrochemical noise, 1245
Electrochemical parameters, 2075
Electrochemical Quartz Crystal Microbalance, 2143
Electrode capacitance, 1245
Electrodeposited films, 1987
Electrodeposition, 729
Electrolytic corrosion, 2099, 2213
EPR test, 1305
Exposure, 1119
Exposure time, 2001

Flaws, 1945
Fracture strain, 1119

Galvanized steel, 1539
Galvanostatic, 747
Goethite, 1687
Grain boundary, 1703

HCl, 1273
Heterogeneous electrochemistry, 229
High temperature corrosion, 1391
High-temperature oxidation, 729
Hydrogen, 805
Hydrogen absorption, 1067, 2251
Hydrogen embrittlement, 87, 1037, 2031
Hydrogen permeation, 203
Hydrogen sulfide, 773

Imidazoline derivative, 1911
a.c. impedance spectroscopy, 653
Impedance spectroscopy, 709
Implant materials, 1175
Incubation, 1245
Inhibition, 1323
Inhibition efficiency, 1911
Inhibitors, 1743
Initiation, 1245
Intergranular corrosion, 421
Intermetalics, 1743
Intermetallic, 1475
Intermetallics, 421
Ion migration, 1835
IR elimination, 2213
Iron, 747, 759, 989, 1497, 1515, 1715, 2083, 2129, 2303, 2353
Iron carbonate, 1231
Iron–chromium alloy, 1557
Iron-Chromium Alloy, 2143
Iron–polymer interface, 580, 599

Kelvinprobe, 547

Lepidocrocite, 1687
LME, 699
Localised corrosion, 229
Low alloy steel, 57, 203

Magnesium alloys, 249
Magnetic, 1687
Manganese, 2053
Mathematical methods, 2129
Measurement, 1911
Measurement of evolved hydrogen, 1323
Metal matrix composites, 1185, 1377
Metal–polymer interface, 547
Metastability, 959
Microalloyed steels, 1037
Microstructure, 249, 529
Migration, 1971
Mild steel, 789, 1231, 1391, 1529
Molten carbonate, 1497, 1515
Molybdate ions, 1289
Molybdenum, 869
Mössbauer spectroscopy, 1665
Multiphase alloys, 902

NaCl solutions, 885
Near field microscopy, 869
Neural networks, 2001
Neutral inhibition, 1987
Ni/MHx battery, 1347
NiAl-clad TiAl-based intermetallics, 1431
Nickel, 351, 463, 729, 1051
Nickel chloride, 2075
Nickel oxide, 729, 1703
Nitride coatings, 1585

ODS alloys, 1921
Organic coating evaluation, 229
Organic coatings, 141
Organic inhibitors, 1359
Oxidation, 902, 989, 1231, 1731, 1791, 1921
Oxidation protection, 1431

Paint coatings, 1539
Parabolic rate law, 1431
Passivation, 709
Passive film, 275, 869
Passive films, 351, 477, 1095, 1231, 1257, 1849, 1899, 1977, 2083
Passivity, 179, 275, 747, 759, 1743, 1871, 2143
Phenylthiourea, 321
Pipeline steels, 1037
Pit growth charge, 1245
Pitting, 1639, 1743
Pitting corrosion, 179, 421, 463, 477, 959, 1185, 1245, 1447, 1899, 2083
Pitting potential, 1175
Polarisation, 179, 685, 1257, 1377
Polarization, 57, 529, 1185, 1205, 1347, 1391, 1403, 1715, 1955, 2251, 2303, 2353
Polarization resistance, 2129
Polymer coatings, 57, 1715
Polymer-coatings, 547, 580, 599
Polymer deposition, 1633
Porosity index, 1585
Potential and current fluctuations, 1245
Potential parameters, 351
Potentiodynamic polarisation, 1165
Potentiostatic, 747, 1185
Potentiostatic, Polarization, 1987
Pure iron, 2113

Quantum chemical study, 1769
Quantum chemistry, 1911, 2303

Raman spectroscopy, 685
Reaction sequence, 1139
Reactive element effect, 1703
Reactive-element effect, 902
Repassivation, 1639
Retardation effects, 2031
RRDE, 1557
Rust, 1665, 2229
Rutherford backscattering spectroscopy, 291

Salt crust, 1289
Scale morphology, 1921
Scanning Kelvinprobe, 580, 599
SCC, 1289
Schiff bases, 1273, 1769
SEM, 87, 1185, 1377, 1403, 1475
SEM/EDS, 2229
Sensitization, 1305
Silanising, 885
Silver, 919
Slow strain rate, 1079
Sodium, 2075
Sodium chloride, 1769
Sodium nitrite, 1031
Sodium thiosulfate, 669
Sputtered films, 1095, 1849, 1871
SSRT, 853, 1175
Stainless, 853
Stainless steel, 87, 275, 321, 669, 1067, 1257, 1347, 1497, 1515, 1639, 2251
316L Stainless steel, 1175
Steam generator corrosion, 2165, 2191
Steel, 141, 179, 1665, 2001
Strauss test, 1305
Stray currents, 2099, 2213
Stress corrosion, 853, 1079
Stress corrosion cracking, 2267
Sulfidation, 669, 989, 1791
Sulfide stress corrosion cracking, 1037
Sulfuric acid, 321, 773
Sulphidation, 919
Sulphur dioxide, 2001
Superparamagnetic, 1687
Surface analysis, 580, 1515
Synthesis, 1911

TEM, 699
Temperature, 2001
Texture, 729, 1703
Thermal oxides, 1467
Thiourea, 321
α-Ti, 699
Ti, 2031
Titanium, 1333, 1871
TOW, 2001
TR infrared spectroscopy (FT–IR), 885
Transmission electron microscopy, 291
Transpassive dissolution through 2D nucleation and growth of an oxide film, 2317
Transpassivity, 1557
Triazole, 789
Tungsten carbide, 1377
Two-phase alloys, 919

UTS, 1119

VPS-cladding, 1431

Weight loss, 1333, 1977
Wet storage, 2229
White cast iron, 2113
Wire beam electrode, 229

X-ray photoelectron-spectroscopy (XPS), 885
XPS, 57, 275, 1051, 1095, 1231, 1715, 1849, 1977, 2143, 2229
XRD, 1391, 1529, 1899, 2229

Y, 1731
Yttrium, 989

ZEBRA battery, 2075
Zinc, 141, 1323, 2001, 2229
Zinc end products, 1139

AUTHOR INDEX

Abdulsalam, M. I. 351
Ahn, S.-H. 653
Akiyama, E. 477, 1095, 1849, 1871
Al-Kharafi, F. M. 709
Albarran, J. L. 1037
Amaral, S. T. 747, 759
Ammeloot, F. 105
Aramaki, K. 57, 1715
Asami, K. 477, 1095, 1849, 1871
Atrens, A. 249
Augustsson, P.-E. 2229
Aydin, A. 1175
Azambuja, D. S. 2083

Baba, H. 1987
Badawy, W. A. 709
Balova, S. 1633
Barbucci, A. 463
Barrena, M. I. 529
Beccaria, A. M. 885
Beche, E. 1051
Behm, R. J. 35
Bell, T. 1257
Ben Bachir, A. 501
Bentiss, F. 789
Bergmann, H. 2113
Berjoan, R. 1051
Bessone, J. B. 1447
Betova, I. 1557
Bloeck, M. 1475
Bojinov, M. 1557
Bottle, S. E. 685
Bouayed, M. 501
Bouzek, K. 2113
Bradshaw, R. W. 1119
Bremner, D. H. 2317
Brown, G. M. 1783, 1835, 1971
Brunoro, G. 197, 1205, 1217
Bucci, R. 197
Burgess, A. E. 2317
Burstein, G. T. 117
Burstein, T. 2073

Cabrini, M. 203
Cai, J. 2001
Cakir, A. 1175
Çakir, A. F. 1289
Cansever, N. 1289
Castello, P. 901, 919
Cerisola, G. 463
Chambaudet, A. 1051
Chan, S. L. I. 1347
Chang, H. 669
Chattoraj, I. 1
Chen, S. 773, 1273
Chen, S. H. 321, 1769
Chen, S. Y. 1347
Chen, X. 321
Chen, Z. 1911
Cheng, X. 773
Cheng, X. L. 321
Cheng, Y. F. 1245
Chiaruttini, L. 885
Christov, M. 1633
Chu, W. 699
Chuang, H. J. 1347
Cicileo, G. P. 1359
Cid, M. 1615
Colin, S. 1051
Conde, A. 1079
Cook, D. C. 1687
Corfias, C. 1539
Corvo, F. 75
Cottam, C. A. 1529
Cottis, R. A. 2001
Couffignal, R. 105
Crossland, A. C. 1945, 2053
Cwiek, J. 1067
Czerwinski, F. 729, 1703

Da Cunha Belo, M. 17
de Damborenea, J. J. 1079
Dargusch, M. 249
Darowicki, K. 1165
Das, S. 1
De Laet, J. 213
De Salazar, J. M. G. 529
Dehri, I. 141
Delblanc-Bauer, A. 275
Desjardins, D. 869, 1067
Doche, M. L. 805
Duffó, G. S. 191
Durand, R. 805

Ebel, T. 35
El-Azab, A. S. 709
Elmorsi, M. A. 305, 2337
Emmony, D. C. 1529
Engelhardt, G. R. 2165, 2191, 2267

Fabricius, G. 1557
Farné, G. 463
Faucheu, J. 1139
Feng, Y. 829
Ferreira, M. G. S. 17
Fiaud, C. 105
Flis, J. 1257
Fogagnolo, M. 1205
Fonsati, M. 1217
Frignani, A. 1205, 1217
Fu, G. Y. 1791

Galvele, J. R. 191
Garfias-Mesias, L. F. 959
Gesmundo, F. 901, 919, 989, 1791
Goods, S. H. 1119
Gorse, D. 1031
Graham, M. J. 1467
Guillaumin, V. 421
Guo, X.-P. 1391

Habazaki, H. 213, 291, 477, 1089, 1095, 1599, 1783, 1849, 1871, 1945, 1971, 2053
Hanžel, D. 1585
Hardie, D. 155
Haruna, T. 853
Hashimoto, K. 477, 1095, 1849, 1871
Hassanein, A. M. 2337
Hazarabedian, A. 87
He, W. 2229
Hermas, A. A. 2251
Heuer, J. K. 1231
Hihara, L. H. 1403
Hihn, J.-Y. 1139
Hofmann, K. 599
Hollrigl, G. 1475
Holzle, L. R. 2083
Hope, G. A. 1377
Hornez, J. C. 789
Howard, R. L. 141
Hsieh, A. K. 829
Hsu, I. C. 1431
Hsu, S. E. 1431
Hussey, R. J. 1467
Huynh, N. 685

Ishikawa, T. 1665
Itagaki, M. 1955
Iwane, A. 1403

Jackson, N. C. 1013
James, L. A. 373, 401
Janicki, S. 1165
Janosi, S. 1257
Janovec, J. 1305
Jargelius-Pettersson, R. F. A. 1639
Jolibois, H. 1051

Kamachi Mudali, U. 179
Kandor, K. 1665
Kautek, W. 1899
Kawashima, A. 477, 1095, 1849, 1871
Kim, S.-S. 653
Kinet, G. 1323
Kiourtsidis, G. E. 1185
Kobayashi, K. 1783, 1835, 1971
Kobotiatis, L. 941
Kodama, T. 1987
Kolozsvary, Z. 1257
Koroleva, E. V. 1475
Koutsoukos, P. G. 941
Kuo, H.-S. 669

Lacabanne, C. 1539
Lagrenee, M. 789
Laguzzi, G. 197
Laitinen, T. 1557
Lakatos-Varsanyi, M. 1585
Landolt, D. 2143
Le Beuze, A. 501
Lee, C. C. 439
Legris, A. 1031
Lei, S. 773, 1273
Lei, S. B. 1769
Leng, A. 547, 579, 599
Leygraf, C. 275, 2229
Li, F.-B. 2317
Li, S. 1273, 1911
Li, S. L. 1769
Li, X.-Y. 1095, 1849
Ligier, V. 1139
Lin, H. C. 2303
Lindbergh, G. 1497, 1515
Linter, B. R. 117
Liu, D. 1273
Liu, D. X. 1769
Liu, S. Z. 2303
Lopez, H. F. 1037
Lopez, N. 1615
Lu, H. 699

Luo, J. L. 741, 1245
Luppo, M. I. 87
Luvidi, L. 197
Lyon, S. B. 141, 2001

Ma, H. 773, 1273
Ma, H. Y. 321, 1769
Macdonald, D. D. 2165, 2191, 2267
Maffi, S. 203
Magnussen, O. M. 35
Malki, B. 1031
Mankowski, G. 421
Mankowski, J. 1257
Mansfeld, F. 439
Manzanedo, S. 529
Martinez, L. 1037
Matteazzi, P. 463
McCaffrey, J. P. 1467
Mehmood, M. 477, 1871
Mendoza, A. R. 75
Millett, P. J. 2165, 2191
Mitra, A. 1
Monteiro, M. J. 1731
Montemor, M. F. 17
Monticelli, C. 1205, 1217
Moon, S.-M. 653
Morad, M. S. 2251
Mori, T. 1955
Moriena, G. 625
Moshier, W. C. 373, 401
Mu, G. 1937
Müller, B. 1323
Müller, I. L. 747, 759
Muller, I. L. 2083
Muñoz, A. G. 1447
Mussati, G. 203

Nakazaki, H. 1665
Narowska, B. 1257
Niu, L. 773, 2303
Niu, Y. 919, 989, 1791
Notoya, T. 685
Novel-Cattin, F. 805
Nozawa, K. 57

Ogura, K. 2251
Oh, S. J. 1687
Okuwaki, A. 1977
Olive, J. M. 869, 1067
Oltra, R. 1419
Országová, J. 1305
Otieno-Alego, V. 685
Ouyang, S. 155
Ovejero-García, J. 87

Pan, J. 275
Pavlidou, E. G. 1185
Pebere, N. 941
Pébère, N. 1539
Peraldo Bicelli, L. 203
Piatnicki, C. M. S. 2083
Pickering, H. W. 351
Pouet, M. J. 105
Prakash, J. 2075
Puiggali, M. 1615
Pyun, S.-I. 653

Rabaâ, H. 501
Raicheff, R. 1557
Rameau, J. J. 805
Rao, K. R. M. 1
Razzini, G. 203
Redey, L. 2075
Reynders, B. 179
Riccieri, R. 463
Rizzo, F. C. 1731
Robin, A. 1333
Robinson, M. J. 1013
Rocchini, G. 2129, 2353
Rocheleau, R. E. 1403
Rosa, J. L. 1333
Rosales, B. 625
Rosales, B. M. 1359

Saario, T. 1557
Sahre, M. 1899
Saillard, Y.-Y. 501
Sandim, H. R. Z. 1333
Sanjuán, M. A. 335
Sathiyanarayanan, S. 1899
Scherer, J. 35
Schmuki, P. 1467
Schmutz, P. 2143
Schweinsberg, D. P. 685, 1377
Serebrinsky, S. A. 191
Seto, M. 1665
Shahid, M. 1323
Shibata, T. 853
Shimizu, K. 213, 291, 1089, 1599, 1783, 1835, 1945, 1971, 2053
Siládiová, V. 1305
Simonsson, D. 1497, 1515
Simes, A. M. P. 17
Siow, K. S. 829
Skeldon, P. 213, 291, 1089, 1599, 1783, 1835, 1945, 1971, 2053
Skoliano, S. M. 1185
Smith, C. J. E. 1945, 2053
Sokólski, W. 2099, 2213

Song, G. 249
Sproule, G. I. 1467
Srhiri, A. 501
Stott, F. H. 901
Stratmann, M. 179, 547, 579, 599
Streckel, H. 547, 579, 599
Stubbins, J. F. 1231
Su, Y. 699
Sutter, E. M. M. 105
Sykes, J. M. 959
Szklarska-Smialowska, Z. 1743
Szpunar, J. A. 729, 1703

Tachez, M. 1139
Takahiro, K. 213
Tan, Y.-J. 229
Tao, Y. 1467
Teo, W. K. 829
Thompson, G. E. 213, 291, 1089, 1475, 1599, 1783, 1835, 1945, 1971, 2053
Tommesani, L. 197, 1205
Tomoe, Y. 1391
Townsend, H. E. 1687
Traisnel, M. 789
Trueman, A. R. 1377
Tsai, W.-T. 669
Tuleja, S. 1305
Tuncell, S. 1175
Türker, M. 1921

Uchida, M. 1977
Ureña, A. 529
Ürgen, M. 1289
Urquidi-Macdonald, M. 2267

Varela, F. E. 1359
Vera, R. 625
Vignal, V. 869
Vilche, J. R. 1359
Vissers, D. R. 2075
Vogt, J.-B. 519
Voss, S. 1403
Vuillemin, B. 1419

Wallinder, D. 275
Wallinder, I. O. 2229
Wang, D. 1911
Wang, M. 1911
Wang, Y. 699
Wang, Y. G. 1769
Wasilewski, Z. R. 1467
Watanabe, K. 1955
Wéry, M. 1139
Wilmott, M. 1245
Wood, G. C. 213, 291, 1089, 1599, 1783, 1835, 1945, 1971
Wu, W. 989
Wu, W. T. 1731, 2303

Xiao, H. 1911

Yamaguchi, S. 213
Yan, L. J. 2303
Yan, R. 989
Yang, M. Z. 741
Yang, Q. 741
Yao, Z. 773
Yao, Z. M. 321
Yasukawa, A. 1665
Yen, S. K. 2031
Ying, Y. 1911
Yu, R. 321, 773, 1273, 1769

Żakowski, K. 2099, 2213
Záhumenský, P. 1305
Zakroczymski, T. 1257
Zeng, C. L. 1731
Zhang, S. 853
Zhang, Y. S. 1817
Zhang, Z. 1403
Zhao, T. 1937
Zhilyaev, A. 1703
Zhou, X. 213, 291, 1089, 1599, 1945
Zhu, B. 1497, 1515
Zhu, X. M. 1817